SECOND STATUS REPORT
TO THE ENVIRONMENTAL QUALITY COUNCIL
On
PROGRESS IN IMPROVING DNRC'S WATER RIGHTS
COMPUTER DATABASE

August 12, 2004

Since the August 2 Status Report, the database workgroup met twice
more on August 4 and August 11. The August 4 meeting concentrated on
further refinement of the Draft Scope of Work and discussion of the
Northrup-Grumman estimate of the cost of preparing a more detailed
estimate of the cost of the work being proposed. The "estimate of the
estimate" (copy attached) indicates that to prepare a detailed estimate of the
work necessary to complete the tasks identified in the first three objectives
of the Draft Scope of Work would cost $12,635. On August 11, the items on
the scope of work were reviewed to insure that the things DNRC could more
efficiently do were not included in the estimate, and providing final direction
in completing the Scope of Work. DNRC has committed to paying for the
"estimate" and completing the contract for that work in the next week.
While the cost to complete the actual database work is unknown, it seems
safe to predict it will be in the hundreds of thousands of dollars.

A separate estimate was also solicited from Axiom, Inc. to develop a
simpler and more automated querying and reporting tool to prepare standard
indexes of water rights. This quote was for $27,000 for 299 estimated hours
of work. to complete Task E3 in the Draft Scope of Work (August 11, 2004
version attached).

A meeting between DNRC and the Department of Revenue was held
in the afternoon on August 2 (facilitated by Krista Lee Evans) to review the
proposed billing process and potential course of action for problems
(meeting summary attached).

A meeting between DNRC and Water Court staff was held in
Bozeman on August 9 to discuss the database's capabilities for electronic
docketing of Water Court cases. This was a very productive meeting, in that
the Clerks were shown how the system is used for docketing DNRC's
administrative contested case hearings, and it was determined that with an

additional field and a report or two being developed, this system could be utilized by the Water Court.

Finally, a programmer position in the Water Rights Bureau that has been left open partially for vacancy savings purposes was approved for recruitment, is being advertised, and the deadline for applications is Sept. 3.

Northrop Grumman Information Technology
2401 Colonial Drive
Helena, MT 59601

August 3, 2004

Mr. Curt Martin
Department of Natural Resources and Conservation
1625 11th Avenue
Helena, MT 59620-1601

Dear Mr. Martin:

On behalf of Northrop Grumman, I am pleased to submit this "estimate to estimate" for several task outlined in the *Water Rights Database Draft Scope of Work* prepared by the Department of Natural Resources & Conservation. Senior members of our staff, as well as individuals involved in the design and development of the current Water Rights Database application have prepared this estimate.

This estimate assumes that all work to provide a detailed estimate would be conducted on a time and materials basis as stated in the MIS Term Contract.

Task		Hours	Cost
A1	Data Conversion, Conversion Errors and Relocation of Data	44	$4,180
A2	Produce an automated procedure for applying Standards by November 2004	8	$760
A3	Produce a Summary Report by November 2004	23	$2,185
A4	Produce a Decree by January 2005	14	$1,330
B1	Create and populate an "Enforceable Priority Date" field by	8	$760
B2	Add an X Y coordinate field linked to each point of diversion.	12	$1,140
B3	Add ditch index number field linked to the point of diversion	12	$1,140
B4	Create Enforcement Indexes (reports)	8	$760
C1	Lock Decreed Basins	2	$190
C4	Add Edit to Objection Filed Date	2	$190
Totals		**133**	**$12,635**

We appreciate the opportunity to present you with this "estimate to estimate", and look forward to working with you and other agencies involved in this project. If you have any questions, please don't hesitate to call me.

Sincerely,

Milt Dahl
Senior Program Manager

Draft Scope of Work
Department of Natural Resources & Conservation
Water Rights Database

Objective

The Department of Natural Resources and Conservation (DNRC) seeks a detailed analysis and estimate of the effort, time and cost for the DNRC to:

Phase 1
- Produce an accurate, complete and timely decree for not-yet decreed basins. (Section A)
- Support enforcement actions ordered by the Water Court. (Section B)

Phase 2
- Improve the security and integrity of the existing database through improved definition of security roles, error and edit checking procedures. (Section C)
- Improve the quality and consistency of information presented to the public through the NRIS access point, Water Court, DNRC field offices and DNRC headquarters. (Section D)

Phase 3
- Improve the overall Efficiency of the system in support of an accelerated examination of water rights, the issuance of decrees and enforcement actions and the appropriation of and changes to new and existing water rights. (Section E)
- Create the necessary programs to report detailed water right billing information to the Department of Revenue by July 2005. (Section F)

Scope of Work

A. PRODUCE AN ACCURATE, COMPLETE AND TIMELY DECREE FOR NOT-YET DECREED BASINS.

Task A1:   Data Conversion, Conversion Errors and Relocation of Data

Provide an estimate of the level of effort, cost and time to convert or correct each element by the target date noted in the following table.

Draft Scope of Work
Department of Natural Resources & Conservation
Water Rights Database

#	Item	Target Date	TIR #	Field Exists (Y/N)	No. of Records
1	When the legacy system had a change flag set for the Source, but not the POD, conversion set the Origin for the Source as Claimed/Decreed. To fix this problem, the Source origin needs to be set to "As modified by rule." If water right included a reservoir, the Origin for the Reservoir was set as Modified By Rule/Modified By Water Court. To fix this problem, the Reservoir origin must be set to "claimed" or "decreed" depending on what status the basin is in.	Nov-04	40	Y	NA[1]
2	Create an Ownership Origin field and populate the field with Legacy data and "as modified by rule".	Nov-04	116/117	N	1,986
3	Split period of diversions were entered into the Legacy database. The period of diversion records need to be identified and then added correctly into Oracle.	Nov-04	308	Y	123
4	Convert multiple use, duplicate and associated remarks into the related rights tab.	Nov-04	319/72	Y	MU = 16,468 DU = 386 AS = 7,250
5	There is address information that converted into the foreign address field. The only information that should be in the foreign address field is foreign addresses.	Nov-04	187	Y	26,704
6	Convert free text remarks to formatted remarks.	Nov-04	299	Y	43,905
7	Some rights in the Legacy did not have a period of diversion. Upon conversion, the longest period of use should have converted to Oracle. This did not occur.	Nov-04	324	Y	~900
8	Convert subdivision remarks to correct place of use.	Nov-04	415	Y	5,782
9	The ability to automatically re-number and sort POD and POU needs to be provided for the system users. Currently this has to be done by the DBA.	Nov-04	159/160/300	Y	NA
10	Modify reports and indexes to eliminate repetitive records.	Nov-04	New	NA	See attached
11	Add origin "Created by Water Court " to all origin LOVs	Nov-04	New	Y	NA
12	POD flags need to print an * on the Summary report.	Nov-04	New	NA	NA
13	"Clarified' origin must print an * on the review abstracts	Nov-04	New	NA	NA
14	The review abstract needs to look as if the standards have been applied to the claim.	Nov-04	New	NA	NA
15	Establish separate table for Ditch Names and any unique identifiers.	Mar-05	183/184/71	N	15,364
16	Add the fields necessary to input information pertaining to the historical decreed right. Miners Inches - Source - Decreed Date - Appropriator.	Mar-05	130/325	N	2,221
17	Convert Legacy objection received information into the objections/counter objections form.	Mar-05	180	Y	38,208
18	Convert and code water reservation rights	Mar-05	64/283	Y	Scope - 417
19	Convert change authorizations	Mar-05	282	Y	634
20	Code all Compacts	Mar-05	284	Y	Scope – 20
21	There is data located in Legacy J rights. The information from those J rights needs to be loaded into Oracle.	Jul-05	114	Y	525
22	Conversion logic was incorrect for origins on late claims in decreed basins where the claims were received after the decree was issued. All the origins of these late claims should be set to "claimed".	Jul-05	112	Y	1252

[1] NA means not applicable

#	Item	Target Date	TIR #	Field Exists (Y/N)	No. of Records
23	In the legacy system, identify those claims dismissed by the water court and change the Status to Dismissed.	Jul-05	186	Y	1,587
24	A field is needed – like implied and severed to identify claimed exempt rights. Field should then be populated with data from Legacy.	Jul-05	118/119	N	77,927

Task A2:   Produce an automated procedure for applying Standards (see draft Standards Program attached) by November 2004

Review existing programs and procedures used in the processing of Standards and provide an estimate to write and/or modify programs to apply (commit) the standards by individual water right, by owner or by an entire basin in accordance with standards criteria established through Water Court rule. Specifications are estimated to take 1 week.

Task A3:   Produce a Summary Report by November 2004

Review existing programs and reports to ensure that the Summary Report produces draft abstracts of all water rights and inter basin transfers (TIR 125) within a basin in accordance with Supreme Court Rule (see attached). If it is found that the existing programs and reports are insufficient, provide a detailed estimate of the effort, time and cost to produce a summary report consistent with Supreme Court rules.

Task A4:   Produce a Decree by January 2005

Provide an estimate of the effort, time and cost to produce a decree. The estimate should include all tasks necessary for the production of a decree including producing the decree abstracts, mailing labels, ownership copies, public notice and additional copies of the decree as ordered by the Water Court. Specifications are estimated to take 1 week.

B.   PRODUCE THE NECESSARY UTILITIES, FORMS AND REPORTS TO SUPPORT ENFORCEMENT ACTIONS AS ORDERED BY THE WATER COURT.

Task B1:   Create and populate an "Enforceable Priority Date" field by November 2004.

Provide an estimate of the effort, time and cost to create an 'enforceable priority date' field and populate with the date June 30, 1973, 11:59 p.m. on all late claims (Type B records) and the actual priority date on all other claims. Modify existing reports and extracts to support change.

Task B2:   Add an X Y coordinate field linked to each point of diversion.

Provide an estimate of the effort, time and cost to add X Y coordinates for each point of diversion by March 2005. This is in conjunction with TIR 183, in part A1, that creates a separate table for ditch names. The table would also include the TRS & quarter sections description for the X Y coordinates. Transitory points of diversion will be noted in a check box.

Task B3:   Add ditch index number field linked to the point of diversion

Provide an estimate of the effort, time and cost to add a field for ditch index number to the point of diversion thereby allowing DNRC to assign a unique alphanumeric number for ordering by the ditch commissioner by March 2005.

Task B4:   Create Enforcement Indexes (reports) – samples attached.

Task B5:   Create an Enforcement Form similar to the Decree Form

Provide an estimate of the effort, time and cost to add a new form to identify water rights within an enforcement area. Need to create the base list of water right numbers and allow for additional numbers to be added year to year.

C.   ENHANCE THE SECURITY AND INTEGRITY OF THE EXISTING SYSTEM THROUGH IMPROVED DEFINITION OF SECURITY ROLES, ERROR AND EDIT CHECKING PROCEDURES.

Task C1:   Lock Decreed Basins

Provide an estimate of the effort, time and cost to prohibit unauthorized users from making changes to a decreed right except to the ownership and file location fields by November 2004.

Task C2:   Validate POD TRS and Basin (TIR 89).

Provide an estimate of the effort, time and cost to validate each combination of Township, Range and Section (TRS) of the point of diversion in each basin. TIR 272, 89 by January 2005

Task C3:   Add Edit to Objection Filed Date

Provide an estimate of the effort, time and cost to prohibit the objection filed date, on a decree (objection type), from being a date earlier than the decree issue date. TIR 292 by November 2004

Task C4:   Prohibit Erroneous and Invalid Relationships within the "Create and Maintain Water Rights Details" Screen.

Provide an estimate of the effort, time and cost to enforce the relationship between the Type of Water Right and the list of available reports by January 2005.

- A general abstract can be printed for all types of rights.

- The Claims worksheet, Decree, As Modified, Review, and Summary Reports only apply to: Interstate transfer claims, irrigation districts, Powder River declarations, reserved claims, and statement of claims.

- The 'as modified' abstract only applies to decreed water rights.

Task C5:   Modify the version screens for the "As Modified Report"

Provide an estimate of the effort, time and cost to modify the version screens on the "as modified report" to include all water right data except the water right number, file location, and office responsible, by July 2005.

Task C6:   Update User Manual and Help Screens by July 2005. Also include TIR 285 report printing.

Provide an estimate of the effort, time and cost to update user manual and help screens.

Task C7:   Automate Ownership Transfer Screen (TIR 66).

Provide an estimate of the effort, time and cost to automate the Ownership Updates. This will require automatically adding a remark to the water rights that are being transferred to a new owner. On the Process Ownership Screen, a selection box would be needed so that one could choose the applicable ownership update remark. There are approximately 5 remarks that could be selected. Further, if the water right being updated is a New Appropriations type, automatically update the end and begin dates to the application ownership when the process selection button is pressed.

Task C8:   RO –Error messaging, to ensure critical fields are not overlooked or that policy is followed. Tir 169, 295, 408. See Error Message Table below.

ERROR MESSAGE	PROBLEM
INVALID PRIORITY DATE	The year, month, day or time entered in the PRIORITY field is incorrect. Check the coding.
NVALID APPLICATION RECEIVED DATE	The date entered in the APPL RCD field exceeds today's date.
NVALID TWP, RGE, SEC	Recheck land description.
INVALID DRAINAGE BASIN CODE	The drainage basin code is incorrect. Reenter the correct drainage basin.
ADDR1 STARTS WITH A SPACE	There is a space before the address entered in the ADDRESS 1 field. Remove the space.
ADDR2 STARTS WITH A SPACE	There is a space before the address entered in the ADDRESS 2 field. Remove the space.
BASIN DOES NOT CONTAIN PORTION OF COUNTY	The county for the land description entered does not include the basin identified in the water right number.
CANNOT BE GROUND WATER	The water right type is stockwater permit. The 605 form cannot be used for groundwater.
CANNOT HAVE ACRES WITH THIS PURPOSE CODE	The code specified in the ID field cannot have acres listed. Only the LG and IR purpose codes can have acres associated to them.
CANNOT HAVE DAM HEIGHT FOR THIS RESERVOIRS	The source for this right is a LARGE reservoir such as Canyon Ferry or Fort Peck Lake. The DAM HEIGHT field must be blank.
CANNOT HAVE CURRENT CAPACITY FOR THIS SOURCE	The source for this right is a LARGE reservoir such as Canyon Ferry or Fort Peck Lake. The CURRENT CAPACITY field must be blank.
CANNOT HAVE PARCEL ACRES FOR THIS PURPOSE CODE	The PURPOSE listed in the right corner is one which cannot have acres associated to it. Only the LG and IR codes can have acres associated to them.
DS DIVERSION MEANS IS CODED – SOURCE MUST BE GROUNDWATER-GROUNDWATER-DEVELOPED SPRING	The means of diversion is coded as a developed spring (DS). Source must be coded correctly
HOUSES CANNOT EXCEED 1	The purpose is coded as domestic, therefore the HOUSES field cannot exceed 1. If there is more than 1 house, the purpose should be coded as multiple domestic.
HOUSES MUST EXCEED 1	The purpose is coded as multiple domestic, therefore the HOUSES field must exceed 1. If there is only 1 house, the purpose should be coded as domestic.
INVALID DIVERSION MEANS	The diversion means for this type of water right is limited. Check the manual or help screen for acceptable diversion means.
INVALID PURPOSE CODE	The purpose means for this type of water right is limited. Check the manual or help screen for acceptable purposes.
MEANS OF DIVERSION MUST BE PIT, DAM, OR PIT/DAM	A reservoir record is coded therefore the means of diversion must be coded as a pit, dam, or pit/dam.
MISSING PARCEL RECORD	A purpose is coded but no place of use is attached to it. Code the place of use information.
MISSING PERIOD OF USE	The period of use is not coded.
MUST BE CONVERTED TO GPM	The maximum flow rate in the Water Right Details Screen has a flow rate entered that is less than 1 CFS. Flow rates less than 1 CFS must be converted to GPM.
MUST ENTER NAME IN CITY/STATE/ZIP	Either the CITY/STATE/ZIP or foreign address fields aren't completed.
MUST ENTER UNIT WITH RATE	The C-G in the maximum flow rate field isn't coded. Enter C for

ERROR MESSAGE	PROBLEM
	CFS or G for GPM.
PURPOSE REQUIRES ACRES TO BE CODED	The purpose code entered is IR, therefore the number of acres must be entered also.
MUST HAVE NOC DUE or TEMPORARY EXPIRATION EVENT	This water right type must have a NOC DUE or TEMPORARY CHANGE/PERMIT OR INTERIM PERMIT EXPIRATION event coded.
PURPOSE REQUIRES CLARIFCATION FIELD	A commercial, institutional, or industrial purpose is coded. The purpose clarification must briefly explain how the water is being used.
NO DIVERSION RECORD	No diversion record is coded. Code a well or diversion record.
PIT, DAM, OR PIT/DAM DIVERSION MEANS HAS BEEN CODED. MUST CODE A RESERVOIR RECORD	A Reservoir Record must be coded if the diversion means is a pit, dam, or pit/dam.
RESERVOIR ID DOES NOT MATCH DIVERSION ID	The reservoir ID is 01. There isn't a diversion ID numbered O1.
RESERVOIR LOCATION DOES NOT EQUAL THE POD	The reservoir is coded as on-stream, however the diversion land description does not match the reservoir land description.
SUM OF PURPOSE RECORD VOLUMES DOES NOT EQUAL WATER RIGHT VOLUME	The total purpose volumes must equal the maximum volume.
WELL SOURCE MUST BE CODED AS GROUNDWATER-GROUNDWATER-WELL	The source for a well must be coded as shown.
LAST NAME HAS A SPACE AT BEGINNING	The LAST/CORPORATION name has a space at the beginning.
MAXIMUM FLOW CANNOT PRODUCE VOLUME DURING PURPOSE PERIOD OF USE. (flow x 1440 x days = maximum volume)	The flow rate codes cannot produce the volume during the period of use. Check flow rate or period of use.

August 11, 2004

D. IMPROVE THE QUALITY AND CONSISTENCY OF INFORMATION PRESENTED TO THE PUBLIC THROUGH THE NRIS ACCESS POINT, DNRC FIELD OFFICES AND DNRC HEADQUARTERS BY JULY 2005.

Task D1: Review with Water Rights Bureau program managers all data tables currently deployed from both DNRC and NRIS web pages for consistency and accuracy of data representation. Consider the various user groups that access the data and their requests for formats and utility of the information deployed (7 Months). DNRC holds a contract with NRIS to complete bullets 1 – 4. The last two bulleted items need to have an estimate.

- Correct, clear, comprehensive information delivered to public

- NRIS site consistent with Database, abstracts, legacy data, claim form

- Develop a standard water right abstract for use by DNRC and NRIS, which will include remarks, periods of diversion, periods of use, other data as defined

- Improve ease of use on NRIS

- Integrate known locations of point, line and polygon features into NRIS data deployment

- Include ditch names in the download to NRIS.

Task D2: Provide assistance for completing the data development / conversion of water reservation water rights and or coded accurately in the database and reported in NRIS / DNRC web application. See TIR 64 & 283 (7 Months). This item must be scoped before DNRC can decide how to get the task accomplished.

Task D3: Working with personnel at NRIS, develop calculator for data conversion to be automated between the Montana State Plane, NAD83, meters map projection and the public land survey system of township, range, section, ¼ ¼ ¼ ¼ locations (7 Months). This task could be worked on by both NRIS and another contractor.

- This calculator tool needs to accommodate single or multiple point features.

- Calculator must integrate into Oracle database table structure and input will automatically update tables with point features such as diversion locations or reservoir dam centers.

Task D4: Link geospatial data to database, i.e., place of use, reservoirs and point of diversion (10 Months). DNRC holds a contract with NRIS for this task.

- Develop the necessary tools to upload and download data between GIS applications and the DNRC database provided by software such as ArcGIS, ArcIMS (ESRI product for Internet mapping services), ArcSDE (ESRI

product serving as a geospatial database engine for support to enterprise GIS applications...ArcIMS for example)

Task D5: Develop logical process to develop standalone GIS capabilities in the Water Rights Bureau to serve water rights information solely from the departmental resources (3-5 years).

- Research hardware and software products utilized in Task D4 for purchase and implementation within the Water Resources Division

- Determine skill set and personnel requirements for continued development and implementation of standalone GIS capabilities

E. IMPROVE THE OVERALL EFFICIENCY OF THE SYSTEM IN SUPPORT OF AN ACCELERATED EXAMINATION OF WATER RIGHTS, THE ISSUANCE OF DECREES AND ENFORCEMENT ACTIONS AND THE APPROPRIATION OF AND CHANGES TO NEW AND EXISTING WATER RIGHTS.

Task E1: Make abstracts easier to access by the Water Court, Regional Managers, and other department staff.

Provide an estimate on the level of effort, cost and time to create a simple, one step form for the Water Court to access general, as modified, summary, decreed, and general abstracts of the current version of the water right.

Task E2: Capacity Plan & IT Unit

Provide an estimate on the level of effort, cost and time to upgrade the DNRC database to accommodate the additional activity associated with accelerated claims examination, decrees and enforcement actions as envisioned by the EQC including server capacity planning, licensing, etc. by July 2005. Keep current with supportable software.

Establish a clear IT structure to evaluate & prioritize the program needs and set-up a defined protocol for development, testing, change control, disaster recovery, business continuity planning, and deployment.

Task E3: Report Tools (TIR 175)

Provide an estimate on the effort, cost and time to develop a query system for department staff that is linked to our database and which allows the user to select standard indexes containing various elements of a water right, sort the information in a variety of ways, and then print the information. Also, the system needs to be designed to allow the user to download the information into an access database.

Task E4: Create an automated report for Compacts by August 2005

Provide an estimate of the effort, cost, and time to develop the logic, queries, and reports to comply with water right compacts. These are usually annual reports with a starting flow rate and volume of water from which certain permit amounts must be removed.

Further, the ability to report water rights that have had a flow rate or volume modified over the court of the year must be identified and must be able to remove or add those flow rates or volumes to the compact allotments. Also, the report must identify terminated water rights and add the applicable flow rate or volume into the amounts table.

Task E5:   Create a public notice process for change authorizations by August 2005 (TIR 331, 408).

Provide an estimate of the effort, cost, and time to develop a change application public notice. This will require development of a report, which must access numerous fields and print them in a defined format. See attached example.

Task E6:   Provide an electronic docketing and objection list for the Water Court by August 2005. The following table provides a list of the Tir's applicable to a docketing system.

TIR ID	PRIORITY	PROGRAM	REQUEST TITLE	PROBLEM DESCRIPTION	TARGET DATE	FIELD EXISTS
205	1	Both	Objection list	The Objection list needs to be developed and tested.		N
61 289	2	Adjudication	Objections / Counter Objections	When type of objection = Intent to Appear the Elements tab should not be available		Y
102 311	2	Adjudication	Cases and Hearings	Change the "Objectors" prompt to read "Objectors/Parties" as this list will include parties that have filed Notice of Intent to Appear		Y
203	2	both	Create and Maintain Cases and Hearings	Need an event field which allows the capability to add open text information for specific situation		N
247	2	Both	Cases/Hearings Screen	Register Tab - put events in reverse chronological order and within the same date, alpha order.		Y
new	2	ADJ	Decree Screen/ Objection list Report	Identify the nature of the Dnrc issue remarks and add them automatically to the Objection list report.		Y
250	2	Both	Cases/Hearings	Add field for Water Court case #. Alpha-numeric 40 bites long		N
292 C3	2	Adjudication	Claim Objections/Counter Objections	System should not allow an objection filed date that is prior to the decree issued date.		Y
279	3	Both	Objections - Initial Obj No.	Eliminate the - Initial Obj. No field		Y
new	2	Adj	Objection Screen	If 'Notice of intent to Appear' grey out element tab		Y
new	2	Adj	Objection Screen	Allow multiple cases in Objection screen. Add field for 'open' or 'closed' case.		N
new	2	Adj	Objection Screen	Change the 'Late' heading to 'Status' and allow for the selection of 'Timely', 'Late', or 'Early". Default to 'Timely'.		N
new	2	Adj	Objection Screen	Add the following to the list of 'Elements' – 'DE" ,'Abandonment", 'non-perfection'		N
new	2	Adj	Decree Screen	Only the Water Court should be able to generate an objection list. Develop the list in excel and PDF formats.		N

new	2	Adj	Objection Screen	Add 'intervenor' to the type of Objector		Y
new	2	Adj	Objection Screen	Add 'on Motion' to the type in the objection screen, but don't require objections	:	N
new	2	Adj	Cases Screen	Add ' motion to amend Statement of claim' and 'motion to amend objection' to the type list.		N
new	2	Adj	Cases Screen	Develop a docket report via the case no. in PDF format		Y
new	2	Adj	Cases Screen	Put the 'event date' first, in reverse chronological order... event date, event, response due.		Y
new	2	Adj	Cases Screen	Add water master field to the cases screen, with default to master assigned to the basin.		Y
new	2	Adj	Cases Screen	Be able to add a free text event, in addition to the lov		Y
new	2	Adj	Cases Screen	Develop a calendar report by Water Master for next weeks or next months schedule.		N
new	2	Adj	Cases Screen	Add 'filed date', 'event description', 'event', 'response date' to register tab	J	N

Task E7:   Provide an interface between the DNRC document imaging system (ISD's servers) and the DNRC Water Rights database by August 2005.

Task E8:   Modify all reports to show source names with their associated forks, springs, and unnamed tributaries, sorted and grouped by the source name.

Task E9:   Provide and estimate on the level of effort, cost and time to complete the TIR's in the following table.

TIR ID	PROGRAM NA = New Approps.	CATEGORY	PRIORITY	REQUEST TITLE	PROBLEM DESCRIPTION	TARGET DATE	FIELD EXISTS
66	Both	Efficiency	1	Ownership Update Date Received Remark	'Currently users add a remark to water right versions when an ownership update is received for that water right, that states "Water Right Ownership Update Received <date received>" It would no longer be necessary to add this remark if the preceding language and the date received were printed on the appropriate reports. Those reports are:1 Acknowledgement of Ownership Update1 General Abstract1 As Modified Abstract ?1 Examination Worksheet ?		NA
142	NA	Efficiency	1	Owner/Contacts Screen - WRs/Appls Tab	It would be helpful if the display only information included the priority date, flow rate and volume also.		?
147	NA	Efficiency	1	Automate Initial Entry	Once all the initial entry information is entered into the applications/change authorization screen. Have only one button that does the following: transfers the number to the water right; enters the priority date and time from the form received event; transfers the owner names to the water right; sets up the version; and on 600s, 602, 605s, 627s enters the application number on the Water Right Details screen - Application Tab.		N
157	Both	Efficiency	1	Tabbing from top of screens to bottom	In the objection screen, when you enter an application number, you can press the tab key and you are navigated into the objection name tab. Wherever feasible this automation should occur. Like in the applications/change authorization screen from the first line into the name on the applicant name tab.		?
165	Both	Efficiency	1	608 Processing	'In the water right screen-ownership tab, automatically change the field, receive mail for the seller to NO. Allow changes to the field if needed.		Y
167	NA	Efficiency	1	Printing Change Authorization Information	RO-When printing the authorization, on the Water Right change version, print an * before the element (not just the title, Point of Diversion) that was ACTUALLY changed on this version. Example – you are printing Version 3 and you changed POD #15 of 35. Place the * in front of POD #15 (the new POD) as well as in front of the POD heading on Version 3 of the water right(s). It is not clear on the face of the document which parcel is the new one, especially if there are 20 parcel records.		?
173	NA	Efficiency	1	608 Processing	RO-Clearer error messaging especially in transfers, such as why an application will not process. Would not have to look through the entire list.		N
219	Both	Efficiency	1	Water Reservation Remarks	The remarks stored in the Legacy information need to be converted into Oracle. As I understand it, this can be accomplished once the customer type is changed to state or local. I do not understand this completely.		?
221	NA	data	1	Purpose Clarification Remarks	'The PU remarks in the legacy data were converted into the Converted Remarks tab. For New Appropriation rights, the information in the PU remark should be inserted into the purpose clarification field.		Y
222	NA	data	1	PA Legacy Remarks	The PA remarks in the Legacy information were converted into the Converted Remarks tab. They should be converted into the Period of Diversion and Period of Use fields.		Y
232	Both	Efficiency	1	Purpose	Display only purposes applicable to program. Base on water right type.		NA

TIR ID	PROGRAM NA = New Approps.	CATEGORY	PRIORITY	REQUEST TITLE	PROBLEM DESCRIPTION	TARGET DATE	FIELD EXISTS
245	Both	Efficiency	1	Application Screen - Objection Tab	Would like to be able to the following fields displayed: Obj. #; Date Received; objection name; representative name; category description; and correct date.		?
261	NA	Data	1	Begin Date for Applicants	The begin date for applicants on the application screen should be the same as the date for owners of the water right. There are currently two different dates.		Y
281	NA	Efficiency	1	Application - Water Rights Tab	This tab should not have any enterable fields. The attachment of the water right to the application is through the water right details, application tab. Gray all the fields on this tab.		Y
309	Both	Efficiency	1	Enter Query	When you enter a query on water right number, have the system return the numbers in numeric order, including the extended ID numbers. Situation: When you enter a query on Water Right Number 6229, it returns 41I 6229 01 Statement of Claim, then it returns 42I 6229 01 Powder River, then 41I 6229 00 Statement of Claim, then 42I 6229 00 Powder River, then 41I 6229 00 Ground Water Certificate		NA
337	Both	Efficiency	1	608 Processing - Remarks	See screen print for proposed Ownership Update screen appearance. (Patti - transfer database suggestion.doc) Add to the Ownership Update Screen (608) a section for remark codes and updates. Then when the update was processed, the remarks would be added to all the water rights listed just like the owners. This would really save time and energy.		N
411	NA	Efficiency	1	Applications and Change Authorization	The water rights table needs to add the version type after the version number, and the operating authority date, and status.		?
New	Both	Efficiency	1	Source/minor	Eliminate source tab and minor type.		Y
New	NA	Efficiency	1	Applications Form	Add a tab to the applications form that identifies which regional office is responsible for change type applications.		N
55	Both	Efficiency	2	Inquiry Legal Land Description	Bring back all the records in a section when no quarter section description is entered.		Y
76	Both	Efficiency	2	Application Screen, Water Right Screen, Ownership Update Screen, Location Tabs	On all three of these location tabs, this listing of locations should be in reverse chronological order (newest to oldest). The same should be applied to the Staff Processing block.		Y
78	NA	Data	2	Purpose Clarification Remarks	Convert the purpose clarification remarks to the Purposes table (Field = NM ????)		Y
79	NA	Data	2	Water Reservation Conversion	Water Right Type Conservation District WR should be associated with their parent water reservation number.		N
133	Adjudication	Bug	2	Calc Maximum Button - ADJ	The function of the Calc Maximum button was not working properly, therefore, disabled. It was calculating the maximum volume, but it was also changing the data in maximum volume		Y

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TIR ID	PROGRAM NA = New Approps.	CATEGORY	PRIORITY	REQUEST TITLE	PROBLEM DESCRIPTION	TARGET DATE	FIELD EXISTS
					field. The system should only bring up a warning message - NOT change the data.		
162	Both	Efficiency	2	Owner Names on Water Right Screen	This TIR has the potential to be BIG. Allow the correction of owner information on the water right screen without going through the correction process. At least allow for correction of original owner field to be corrected by someone other than the DBA.		N
182	Both	Efficiency	2	Reservoir - County/State - ADJ/NA	After selecting the County from the LOV, automatically populate the State.		Y
187	Both	Bug	2	Foreign Addresses - ADJ/NA	Correct the addresses that were converted into the foreign address field.		Y
216	Adjudication	Efficiency	2	Create and Maintain Decrees - ADJ	Allow the capability to query on a number in the decree listings, rather than scrolling through the entire list to find a number.		Y
231	Both	Efficiency	2	Diversion Means	Have LOV only display diversion means applicable to programs.		Y
242	NA	Efficiency	2	Objection Tab	Remove automatic update of 15 day default on response due on notification sent. It is applicable to the notification served.		Y
244	Both	Efficiency	2	Cases/Hearing	On the WR and Application tab, need to see list of objectors and representatives. Maybe a tab displaying parties would be better option.		Y
260	NA	Efficiency	2	Application Screen - Events Tab	Display the events in chronological order with the most recent date displayed at the bottom..		Y
266	NA	Efficiency	2	Cases Tab	Cases are applicable to applications for New Appropriations - should be a Cases tab on applications screen.		N
274	Both	Efficiency	2	LOVs	RO - ALL LOVs should operate the same. They currently are varied throughout the system. We may need to have a separate TIR to identify all the LOVs and how to fix their operation.		Y
302	Both	Enhancement	2	Means of Diversion - ADJ/NA	Means of Diversion on the POD tab need to be in alpha order.		Y
306	Both	Enhancement	2	Legal Land Description Inquiry	The TRS inquiry needs to have a reservoir tab added to show the rights found.		N
346	Both	Efficiency	2	Related Rights Screen - Rounding Numbers	I just added some rights in the related rights screen. I found that when I entered a combined flow rate and saved it, it rounds up. I don't think it should round at all because the combined information is based on 2 or more rights that have a certain flow, and the combined shouldn't exceed that.		Y

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TIR ID	PROGRAM NA = New Approps.	CATEGORY	PRIORITY	REQUEST TITLE	PROBLEM DESCRIPTION	TARGET DATE	FIELD EXISTS
351	Both		2	Source Name	When a water right has multiple points of diversion with different sources, each source name needs to print with the associated point of diversion. See water right number 43BV 150275.		Y
405	NA	Efficiency	2	Owners/contacts	The application type field is not wide enough to display the application type. See App# 229137		Y
406	Both	Efficiency	2	Abstract remark Categories	The form need to sort by column #1 Remark Category code		Y
406	NA	Efficiency	2	Abstract Report remarks code table	The drop down is not wide enough to read the remark description.		Y
409	Both	Efficiency	2	LOV for Subdivisions	Check that the LOV for when a user is selecting a Subdivision that the DNRC name is long enough. Should be in the POU, POD. Use Gallatin Co and the dnrc name of 'Sour Dough Creek Proper..........."		?
106	Both	Efficiency	3	Owners/Contacts Screen WRs/Appls tab	The first block should have a prompt that reads "Water Rights"		Y
107	Both	Efficiency	3	Details Screen, Converted Remarks tabs	Do not have the default value "ISSUE" appear in the second drop down box on this tab. The default value should be null.		Y
144	NA	Efficiency	3	Applications/Change Authorization Screen - Objection Tab	The title "Date Received" should be "Date Filed".		Y
227	NA	Efficiency	3	Application Change Description Tab	Identify the first box as "Proposed Change".		Y
234	Both	Efficiency	3	Period of Diversion - Element Origin	Change field title from element origin to Period of Diversion Origin.		Y
237	Both	Efficiency	3	Basin - WR # Order	'RO-On water right screen, place number before basin. Most are querying on number only. Need to be consistent. Currently application screen is one way and water right is another.		Y
257	Both	Efficiency	3	Basin/Compacts	Change label - basin code to something else. Implies a basin # should be inserted when it is just a code needed by Oracle. Don't know what to call it.		Y
345	NA	Efficiency	3	Conservation District Number	On the Applications/Water Rights tab of the Create and Maintain Owners screen we need to have a column that displays the Conservation District internal number. It is very difficult trying to find which record needs to be updated without that information.		N
347	Both	Efficiency	3	Related Rights Tab 4010F	Add manifold as a type of related element.		N

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TIR ID	PROGRAM NA = New Approps.	CATEGORY	PRIORITY	REQUEST TITLE	PROBLEM DESCRIPTION	TARGET DATE	FIELD EXISTS
				POD ID field – Reservoir Record	When a number is entered in the reservoir POD ID field, the database should automatically enter the same land description from the point of diversion ID into the reservoir land description fields.		Y

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F. **CREATE THE NECESSARY PROGRAMS TO REPORT DETAILED WATER RIGHT BILLING INFORMATION TO THE DEPARTMENT OF REVENUE BY JULY 2005.**

Task F1: Create Extracts for the Department of Revenue

Identify all active water rights in the following categories. Identify the ownership entities for each category, and using a cap of 20 water rights in a category, except for the irrigation district category that is capped at 40 users, and calculate the fee required for each ownership entity. An ownership entity could be a single individual or company or a group of individual and companies all sharing common ownership in a water right(s). The calculated fees for each entity would then be transferred to the Department of Revenue. Some geospatial interface (geocode or a link to the cadastral site) would be required for the non-matches in ownership, in order to send the bill to the current owner.

Commercial rights:	0	to	100 acre-feet(AF)	$20
	>100	to	5000 AF	$1000
	>5000 AF			$2000

Industrial, Mining, or Municipal:

	0	to	1000 AF	$20
	>1000	to	4000 AF	$1000
	>4000 AF			$2000

Power Generation (both consumptive and non-consumptive):

	0	to	100,000 AF	$20
	>100,000	to	1,000,000 AF	$1000
	>1,000,000 AF			$2000

Instream Flow Rights and Reserved rights (excluding all the above water rights):

	0	to	50,000 AF	$20
	>50,000	to	1,000,000 AF	$1000
	>1,000,000 AF			$2000

Irrigation Districts, Ditch Companies, Water User Associations, Canal Companies, or Irrigation Projects:

$20 per user, capped at 40 users. If there are more than 40 users the $800 fee will be split evenly among the users.

All other water rights:

$10 per water right capped at 20 rights.

Note: volumes are either recorded with the water right data or are calculated based on the flow rate and the period of use. If the volume cannot be calculated, the volume for billing purposes is zero.

Adjudication Funding Fee
Meeting with Department of Revenue and Department of Natural Resources and
Conservation

August 2, 2004

Attendees:
Department of Natural Resource and Conservation
    Jack Zanto, DNRC IT; Jim Gilman, Adjudication Program Manager; Jane
    Horton, DNRC GIS; Dave Coey, Water Rights Database

Department of Revenue
    Paula Hiatt - Cashiering Unit Manager; Dennis Manalo - IRIS Project; Nita
    Green - Information Technology Unit Manager; Les Saisbury - Property
    Tax Specialist; Neil Peterson - Customer Service Division Administrator

Legislative Services Division
    Krista Lee Evans, Research Analyst

Summary of topics discussed, responsible parties, and Legislative Services Division reply to questions.

- DNRC will be responsible for compiling the name, address, and billing amount for each entity and submitting that information to DOR in November of odd numbered years.

- DOR will send the bills in December of odd numbered years with payment due by January 31 of even numbered years.

- In the event DOR and DNRC have different addresses –
  Alternatives
    - DNRC and DOR cross reference databases to determine where there are differences. DNRC will follow up with the ones that are different to try to determine the right owner.
    - DOR will send a bill to each address – this would meet he requirement that all reasonable steps were taken to get the bill to the right address.
    - In the event a notice of assessment is returned as undeliverable then the department shall take the steps necessary to abandon the claim. 1-3-218, MCA provides that "the law helps the vigilant before those who sleep on their rights." If an entity didn't file a transfer of ownership then they don't have a legal water right. It is in limbo. The constitution protects the right if they follow the law. Those that followed the law and transferred their right and paid the

appropriate fee will be assessed the adjudication fee. Why should those who didn't follow the law be given any leeway? This is a policy issue the work group will have to discuss.

- Do we need an exception so the DOR can provide address and name information back to DNRC? I checked with our chief legal counsel and he feels that name and address information is not privileged and there wouldn't be a problem. It isn't being published anywhere, it is simply government to government.

- Can DNRC get the addresses put together by November 2005?

- Multiple owners on claims.

  o Alternative would be to put in the bill that the notice of assessment must be sent to the first person listed on the water right. Since we wouldn't be forcing them to abandon their claim if the fee isn't paid this should work. However, if the mail is returned and the work group decides to move forward with the requirement that the claim be abandoned then we would have to put language in requiring that the others listed on the claim be mailed the notification in the event the first notice was returned as undeliverable.

- A new subsection needs to be added into Section 3 that provides for 5% administration fee being paid to DOR.

- Greater than 20 water rights – if someone is billed for more than 20 water rights (rather than having the cap applied) then there is an opportunity for administrative appeal in the bill – will DNRC need an additional hearings examiner to address any additional work load?

- The use of geocodes would be helpful in the future with regard to keeping track of ownership and water rights.